ALEX MACHIN-MAYES

GIS SPECIALIST

CONTACT

- 📞 360-527-6216
- ✉ alexmachinmayes@gmail.com
- 🌐 alexmachinmayes.github.io
- 📍 618 W Connecticut St
  Bellingham, WA 98225

EDUCTATION

MS, CARTOGRAPHY AND GIS
University of Wisconsin - Madison, 2021
Phi Kappa Phi | 4.0/4.0 GPA

BA, HUMAN GEOGRAPHY
MINOR, GIS
Western Washington University, 2012

SKILLS

- GIS Processing & Analysis
- Cartographic Visualization
- Geodatabase Administration
- GPS Data Collection
- Web Map Development

PROFICIENCIES

GIS
ArcGIS Desktop, AcrGIS Pro, ArcGIS Online, Collector, Model Builder, ArcPy, Web AppBuilder, COGO, ArcGIS Developer, QGIS

Geodatabases
Parcel Fabrics, LGIM, schemas, SQL expressions, topologies, coded value domains, joins, relationships

Related Tools
Adobe Creative Suite, Mapbox Studio, Pathfinder Office, Excel, U.S. Census data mapping, urban & international geography studies, research & writing

Working Knowledge
ArcGIS API for JavaScript, HTML, CSS, JavaScript, Bootstrap, Python, SQL, Leaflet, GitHub, GRASS, CAD

PROFILE

Self-driven and resourceful GIS expert with over six years of professional experience and an aptitude for learning and applying new tools. Brings advanced technical and analytical proficiencies, a highly adaptable skill set, and wide-ranging knowledge in GIS, geoprocessing, geodatabases, cartography, and GPS. Seeks remote position to contribute skills and develop specialization.

EXPERIENCE

GIS CONSULTANT

Falcon Cultural Resources | Skagit County, WA (Remote)   2019-Present
- Produce archaeological site maps and shapefiles for reports to the DAHP.
- Utilize aerial, LiDAR, USGS topographic basemaps and web services to give historical and ecological context to site areas.
- Provide GPS data processing and support for field data collection.
- Conduct viewshed analysis to visualize prominence of proposed development.

GIS PROPERTY SPECIALIST

Swinomish Indian Tribal Community | La Conner, WA   2014-2017
- Responsible for providing maps, analysis, database maintenance and support to a wide range of government departments, specialists, and technicians.
- Managed and maintained GIS data within the Planning Department system and published data for interdepartmental use to ArcGIS Online.
- Contributed to building and maintaining complex databases of government assets and features, including: zoning, parcels, buildings, roads, utilities, and natural and cultural resources.
- Produced maps and property updates by researching and interpreting land surveys, as-builts, legal property descriptions, and county assessor records.
- Worked with environmental science specialists to survey and map wetland soil conductivity and assess the suitability of crops and restoration efforts.
- Collaborated with project managers to design and configure custom database schemas and ArcGIS Collector apps, enhancing GPS data collection efficiency.

GIS CONSULTANT

Independent Contractor | Bellingham, WA   2012-2014
- Created a large forest roads database for salmon habitat restoration initiative using Road Maintenance and Abandonment Plan documents, georeferencing maps, and analysis of LiDAR and NAIP aerial imagery for digitization.
- Digitized the Nooksack River active channel footprint at large scale for an update to the National Hydrography Dataset.
- Assisted in the development of a comprehensive geodatabase and study template for studying steelhead habitat health indicators for the Northwest Indian Fisheries Commission.